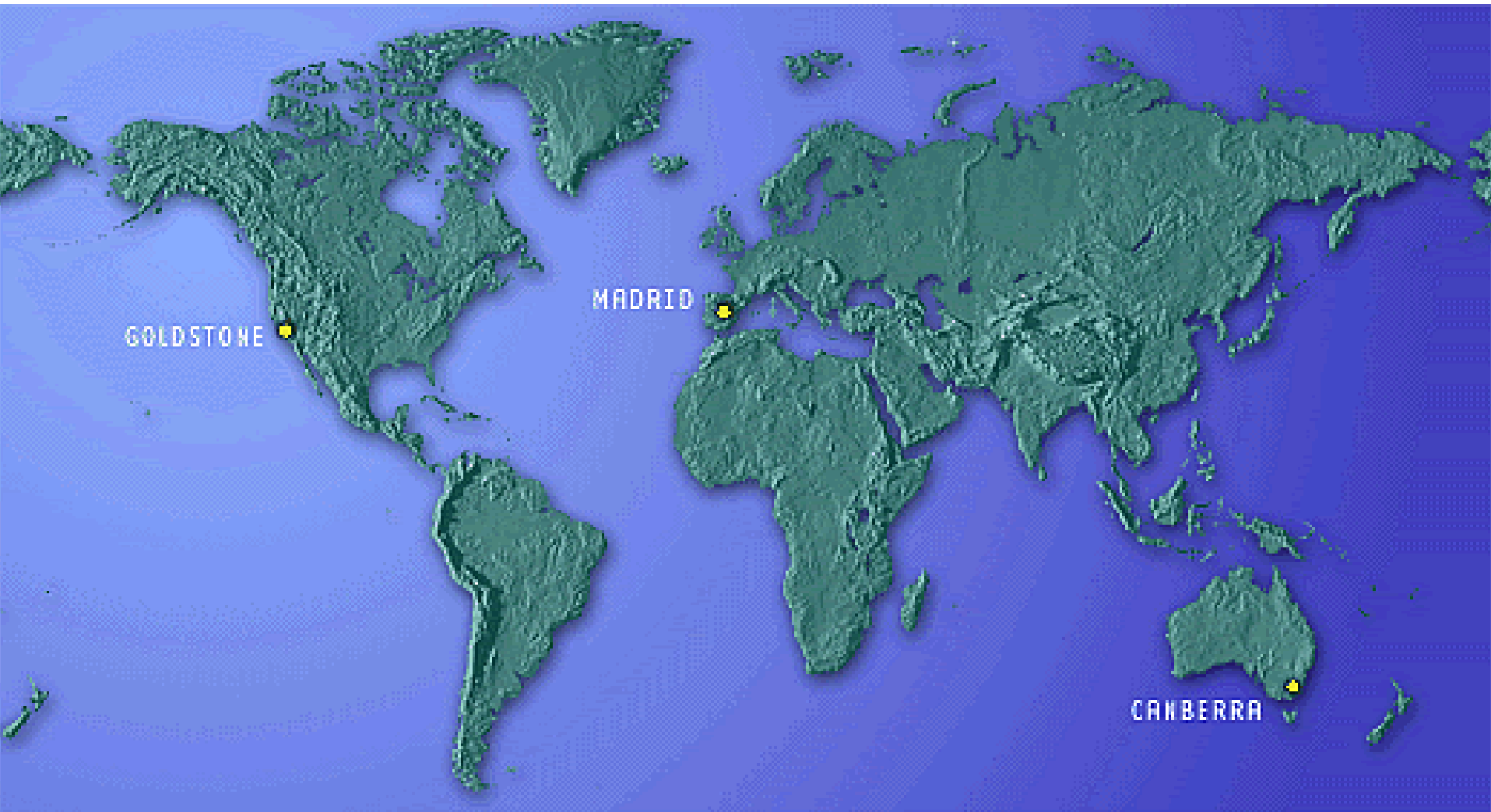


DSN Antenna Downtime Status and Forecast



<http://rapweb.jpl.nasa.gov/planning>

Antenna Downtime Status and Forecast

The following downtimes for 2008.

- ❑ SPC-60 is requesting additional time for Commercial Power Installation no earlier than July 8, 2008. They are requesting 2 three day blocks or 3 two day blocks on off shift hours.
 - ❑ DOYs 190, 191 and 192 have been scheduled.
 - ❑ DOYs 203, 204, 205 & 206 have been scheduled.
- ❑ SPC-40 is requesting complex downtime for A Station Power Grid.
 - ❑ Week 22 DOY 153 2200-0200 scheduled
 - ❑ Week 35 DOY 238 2200-0600 scheduled
 - ❑ Week 38 DOY 266 2200-0400 scheduled
 - ❑ Week 40 DOY 273 2200-0400 proposed
- ❑ DSS-34 Ka-Band Phase 2 downtime beginning in week 29 has scheduled an additional 4 weeks to complete the task and will end in week 43.
 - ❑ The impacted projects have agreed to move to other antenna and this will be negotiated in the conflict negotiation meetings.
 - ❑ Cassini has requested a non-committed support in week 42.
- ❑ DSS-55 downtime for Paint Repair is scheduled for September, weeks 36 - 41.
- ❑ DSS-14 Grouting has been proposed for 5 days during the October time frame.
 - ❑ This grouting was proposed due to the delay in downtime for DSS-43. We are looking for time before the end of October and can be accomplished over a weekend.
- ❑ DSS-54 downtime for ACQ Aid Installation is scheduled for October, weeks 42 and 43 of 2008.
 - ❑ Due to Cassini critical support, the proposed downtime DOYs will be 287 – 290 and 295 – 298. The NOPE will schedule TERRA supports for testing.
- ❑ DSS-24 Ka-Band Phase 2 downtime has been moved from 2009 to start in week 45 of 2008 through week 3 of 2009.

Antenna Downtime Status and Forecast

Downtime request for 2008

The following proposals for 14 hour complex downtimes are requested by GDSCC.

- ❑ Requesting 60 eight hour daylight time for DSS-14 Fall Arrest Downtime.
 - ❑ Proposing to schedule this downtime during DSS-14 Grouting in week 31 and Life Extension scheduled for 2009.
- ❑ Corrective maintenance “G86/G81 Transfer Switch Electrical Maintenance” has been changed to NET September 2008 week 36.
- ❑ Preventative maintenance “G91 2400V Switchgear Electrical Maintenance” has been changed to NET September 2008 week 38.
- ❑ Preventative maintenance “Echo Tie-Line Electrical Maintenance” has been changed to NET October 2008 week 40.
- ❑ Preventative maintenance “Apollo Tie-Line Electrical Maintenance” has been changed to NET October 2008 week 43.
- ❑ Preventative maintenance “SPC-10 Electrical Maintenance” in November week 45.

Additional time is being requested

- ❑ Two 8 hour complex downtimes in December 2008 for cutover, final connection and testing of the new G86 Substation, Mars Site.
- ❑ Fourteen 4 hour periods between July 2009 and January 2010 for testing of G86 Substation, Mars Site.

Antenna Downtime Status and Forecast

The following proposals for antenna downtimes are requested.

- ❑ **MDSCC Annual Antenna Inspections at DSS-54 and -55, -63, -65, as follows:**
 - ❑ DSS-54 is scheduled for DOY 305/0700-1500 week 44
 - ❑ DSS-55 is scheduled for DOY 294/0700-1500 week 43
 - ❑ DSS-63 is scheduled for DOY 296/0600-1400 week 43
 - ❑ DSS-65 is scheduled for DOY 295/0600-1400 week 43

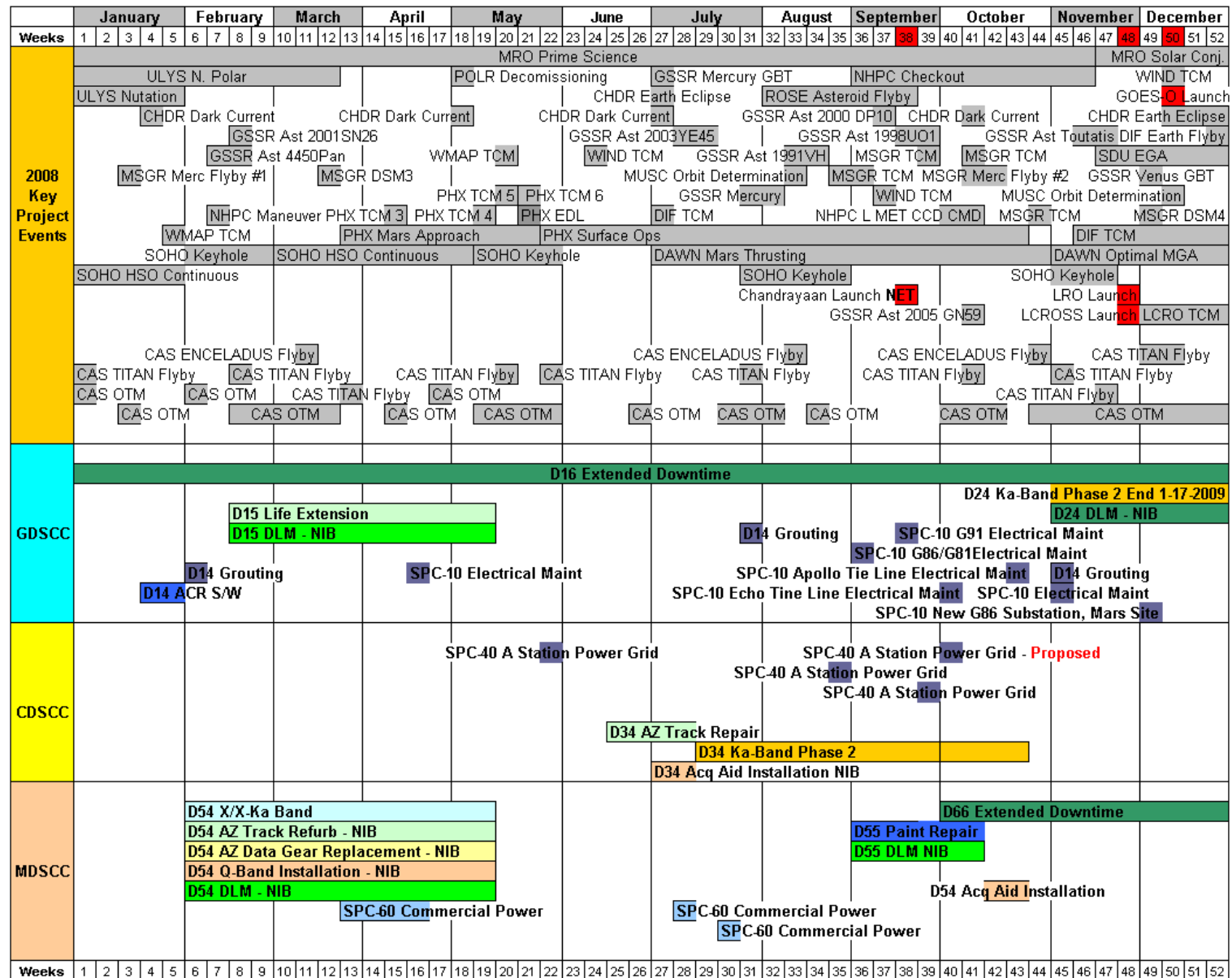
- ❑ **HEF Transmitter Manifold Installation at DSS-15, -45 and -65 between July, 2008 and June 2009 not to be scheduled concurrently with DSS-15 being scheduled first. This is a 4 day downtime period.**
 - ❑ This installation has been put on hold.

Antenna Downtime Status and Forecast

The following downtimes are for 2009 – 2010

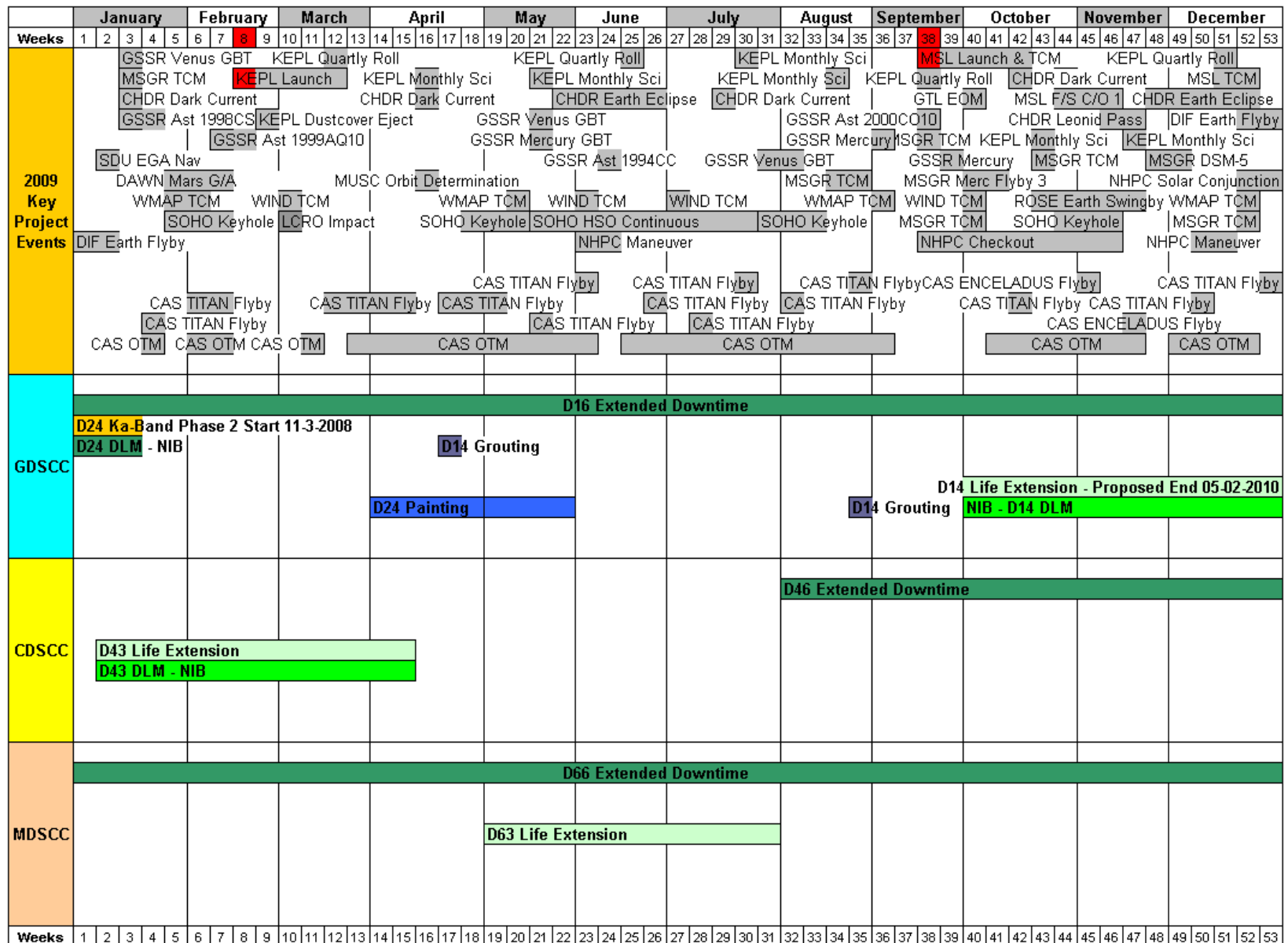
- ❑ DSS-43 downtime for Life Extension and Depot Level Maintenance has been moved to start January 5, 2009 and end April 12, 2009 weeks 2 – 15
- ❑ DSS-63 downtime for Life Extension has been shortened to May 4, through August 2, 2009, weeks 19 - 31.
- ❑ DSS-24 downtime for painting has been scheduled for April – May of 2009, weeks 14 - 22.
 - ❑ There will be complete 24/7 downtime for weeks 14-16 and dayshift downtime (1400-0200) for weeks 17-22.
 - ❑ Could be impacted if Kepler launch slips.
- ❑ DSS-14 Grouting has been proposed for 5 days for the October time frame.
 - ❑ This grouting was proposed due to the delay in downtime for DSS-43. We are looking for time before the end of October and can be accomplished over a weekend.
- ❑ DSS-34 downtime for Azimuth Track Replacement has been proposed for 2010, local summer.
 - ❑ It is proposed to move to January 2010.
- ❑ DSS-65 downtime for Life Extension Elevation has been proposed for weeks 31 - 41 in 2010.
- ❑ As a result of the reduction of downtime for DSS-43 & DSS-63 in 2008 & 2009, it is requested to recover that time in 2010, local spring, summer or fall after DSS-14 RTS.
 - ❑ DSS-43 is proposed for August 30 to November 29, 2010 weeks 35-48
 - ❑ DSS-63 is proposed for February 28 to May 29, 2011 weeks 9 -21.
- ❑ DSS-15 downtime for Pintle Bearing has been proposed for May 3, through June 27, 2010, weeks 18 - 25.

Antenna Downtime Status and Forecast 2008



Revised: July 7, 2008

Antenna Downtime Status and Forecast 2009



Revised: July 7, 2008

Antenna Downtime Status and Forecast 2010

	January								February								March								April								May								June								July								August								September								October								November								December							
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																																												
2010 Key Project Events	GSSR Mars								WIND TCM VCO Launch																GSSR Venus GBT								GSSR Venus GBT								GSSR Ast 1998U01								GSSR Mercury																																															
	WIND TCM								GSSR Mercury																GSSR Ast 1999 MN								WIND TCM								GSSR Mercury GBT								GSSR Ast 2003 UV11								CHDR Earth Eclipse																																							
	KEPL Monthly Sci								KEPL Monthly Sci																KEPL Monthly Sci								KEPL Monthly Sci								KEPL Monthly Sci								KEPL Monthly Sci								KEPL Monthly Sci																																							
	KEPL Monthly Sci								MUSC Re-entry																KEPL Qtrly. Roll																KEPL Qtrly. Roll								KEPL Qtrly. Roll																																															
	DIF Earth Flyby								MSGR TCM WMAP TCM ROSE Asteroid LutetiaFlyby																WMAP TCM								WIND TCM								ROSE DSM-2																																																							
	DIF TCM								MSL FS Checkout 2 MSGR TCM GSSR Mercury MSL TCM																DIF TCM																MSGR TCM																																																							
	CHDR Dark Current								MSL FSW Update NHPC Checkout NHPC Checkout																DIF Encounter								GSSR Ast 2002 VE68																																																															
									CHDR Earth Eclipse CHDR Dark Current CHDR Dark Current																CHDR Dark Current								CHDR Earth Eclipse																																																															
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GDSCC	D16 Extended Downtime																																																																																															
	D14 Life Extension - Start 10-03-2009																	Proposed Extension																																																																														
	NIB - D14 DLM																	Proposed Extension																																																																														
																		D15 Pintle Bearing - Proposed																																																																														
CDS CC	D46 Extended Downtime																																																																																															
	D34 AZ Track Replacement - Proposed																	D43 70m Power and HBA Upgrades - Proposed																																																																														
MDSCC	D66 Extended Downtime																																																																																															
																																		D54 Ka-Band Phase 2 - Proposed																																																														
																																		D65 Life Extension Elevation - Proposed																																																														
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52																																												

Revised: July 7, 2008

Antenna Downtime Status and Forecast 2011

	January				February				March				April				May				June				July				August				September				October				November				December							
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
2011 Key Project Events	CHDR Dark Current				CHDR Dark Current																				CHDR Dark Current				JUNO Launch & TCM				JUNO TCM				JUNO HV Checkout				CHDR Dark Current				GSSR Asteroid 2000 YA							
	KEPLMonthly Sci.				KEPLMonthly Sci.				KEPLMonthly Sci.				KEPLMonthly Sci.				KEPLMonthly Sci.				KEPLMonthly Sci.				KEPLMonthly Sci.				GRAIL Launch				KEPLMonthly S&				KEPLMonthly Sci.				KEPLMonthly Sci.				KEPLMonthly Sci.							
									KEPL Qtrly. Roll												KEPL Qtrly. Roll								KEPL Qtrly. Roll				KEPL Qtrly. Roll				KEPL Qtrly. Roll				KEPL Qtrly. Roll											
	MRO Relay																																																			
	SOHO Keyhole								SOHO Keyhole												SOHO Keyhole												SOHO Keyhole												SOHO Keyhole							
	MSGR TCM				MSGR MOI																MSGR TCM								MSGR TCM								MSGR TCM								MSGR TCM							
	ROSE DSM-2								ROSE DSHM Entry																				NHPC DDOR				NHPC DDOR				NHPC Checkout															
GDSCC	WIND TCM								WIND TCM																WIND TCM																											
	D16 Extended Downtime																																																			
CDSCC																																																				
	D46 Extended Downtime																																																			
MDSCC																																																				
	D66 Extended Downtime																																																			
												D63 70m Power and HBA Upgrades - Proposed																																								
Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52

Revised: July 7, 2008

Antenna Downtime Status and Forecast

DSN Resource Implementation Planning Matrix by Subnet

Complex	Station	Subnet	S-Band		X-Band		Ka-Band		Ka Phase 2
			Down	Up	Down	Up	Down	Up	
10	DSS-16	26M	✓	N/A	N/A	N/A	N/A	N/A	N/A
40	DSS-46	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
60	DSS-66	26M	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-27	34HSB	✓	✓	N/A	N/A	N/A	N/A	N/A
10	DSS-24	34B1	✓	✓	✓	✓	N/A	N/A	09/21/09
40	DSS-34	34B1	✓	✓	✓	✓	✓	N/A	09/29/08
60	DSS-54	34B1	✓	✓	✓	✓	04/15/08	N/A	09/27/10
10	DSS-25	34B2	N/A	N/A	✓	✓	✓	08/01/10	N/A
10	DSS-26	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
60	DSS-55	34B2	N/A	N/A	✓	✓	✓	N/A	N/A
10	DSS-15	34HEF	✓	N/A	✓	✓	N/A	N/A	N/A
40	DSS-45	34HEF	✓	07/17/08	✓	✓	N/A	N/A	N/A
60	DSS-65	34HEF	✓	07/17/08	✓	✓	N/A	N/A	N/A
10	DSS-14	70M	✓	✓	✓	✓	N/A	N/A	N/A
40	DSS-43	70M	✓	✓	✓	✓	N/A	N/A	N/A
60	DSS-63	70M	✓	✓	✓	✓	N/A	N/A	N/A

N/A = Capability Not Planned xx/xx/xx = Capability Date Recently Changed

As of: 02/07/08

✓ ✓ ✓ = Capability Recently Exists

✓ = Capability Exists